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Abstract

The present invention relates to a communication device and a communication method for transmitting and receiving data in a communication system, in which a random access channel with a plurality of access resources is provided. The communication device (1) comprises selecting means (5) for randomly selecting an access resource from said plurality of access resources on the basis of an access probability distribution being allocated to said communication device (1), said access probability distribution defining the probability of a random access to the random access resources, whereby at least two access resources have a different access probability, and transmitting means (3) for transmitting a random access burst in the randomly selected access resource.

The use of an access probability distribution allows a very flexible and effective way of accessing the random access channel of the communication system, which may be a wired or a wireless communication system.

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(Figure 1)